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KEY=DYNAMIC - MCGEE ELSA

Dynamic Analysis of Landing Gear

And Selection of Suitable Landing Gear for Reusable Launch Vehicle

LAP Lambert Academic Publishing The key idea of this book was to model a landing gear for the analysis of the behavior of an aircraft during ground maneuvers. The aircraft landing gear by its nature itself is a complex multi-degree-of-freedom system. Based on stability criterion a suitable landing gear was selected for RLV. In this book landing gear is modeled exclusively as two DOF and for getting the individual responses of components it is also modeled as four DOF system subjected to smooth landing and suitable ground excitation. This book also provides the systematic way of solving complex multi-degree-of-freedom system. The responses obtained and plotted in MATLAB are in line with the results of equivalent numerical model in ANSYS. It is to be highlighted that the analytical model developed can be used as a generic model for accurate prediction of linear responses of landing gears. This book is especially useful to researchers and academicians in the field of Design and Aerospace engineering.

Design of Suspension System of Landing Gear in Reusable Launch Vehicle

LAP Lambert Academic Publishing This project encapsulates the calculations for the proper positioning and strut design of the landing gear in a particular aircraft. The positioning is based on criteria such as the Tip-back angle and Overturn angle. Once the positioning of the nose and main landing gears are fixed, the loads on the landing gears are calculated. Then depending upon the choice of shock absorber and the loading conditions suitable sizing of the strut and the tire are designed.

NASA Thesaurus

The Eclipse Project

Reusable Booster System

Review and Assessment

National Academies Press On June 15, 2011, the Air Force Space Command established a new vision, mission, and set of goals to ensure continued U.S. dominance in space and cyberspace mission areas. Subsequently, and in coordination with the Air Force Research Laboratory, the Space and Missile Systems Center, and the 14th and 24th Air Forces, the Air Force Space Command identified four long-term science and technology (S&T) challenges critical to meeting these goals. One of these challenges is to provide full-spectrum launch capability at dramatically lower cost, and a reusable booster system (RBS) has been proposed as an approach to meet this challenge. The Air Force Space Command asked the Aeronautics and Space Engineering Board of the National Research Council to conduct an independent review and assessment of the RBS concept prior to considering a continuation of RBS-related activities within the Air Force Research Laboratory portfolio and before initiating a more extensive RBS development program. The committee for the Reusable Booster System: Review and Assessment was formed in response to that request and charged with reviewing and assessing the criteria and assumptions used in the current RBS plans, the cost model methodologies used to fame [frame?] the RBS business case, and the technical maturity and development plans of key elements critical to RBS implementation. The committee consisted of experts not connected with current RBS activities who have significant expertise in launch vehicle design and operation, research and technology development and implementation, space system operations, and cost analysis. The committee solicited and received input on the Air Force launch requirements, the baseline RBS concept, cost models and assessment, and technology readiness. The committee also received input from industry associated with RBS concept, industry independent of the RBS concept, and propulsion system providers which is summarized in Reusable Booster System: Review and Assessment.

Space Planes and X-vehicles

Hearing Before the Subcommittee on Space and Aeronautics, Committee on Science, House of Representatives, One Hundred Seventh Congress, First Session, October 11, 2001

NASA Information Sciences and Human Factors Program

NASA Information Sciences and Human Factors Program Annual Report, 1990

Popular Science

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Emerging Military Technologies

A Guide to the Issues

ABC-CLIO This book examines emerging defense technologies such as directed energy weapons, nanotech devices, and bioscience applications that have the potential to dominate international relations in the future, just as nuclear weapons and space infrastructure-assisted conventional weapons do now.

NASA Scientific and Technical Reports

A Selected Listing

NASA Historical Data Book: NASA launch systems, space transportation

Aviation Week & Space Technology

NASA Technical Note

NASA technical note

NASA Thesaurus Alphabetical Update

Subject Terms for Indexing Scientific and Technical Information

Aerospace Plane Technology

Research and Development Efforts in Europe : Report to the Chairman, Committee on Science, Space, and Technology, House of Representatives

The Hypersonic Revolution

Case Studies in the History of Hypersonic Technology

Department of the Air Force By Larry Schweikart, et al. Edited by Richard P. Hallion. Consists of 3 volumes: V. 1, From Max Valier to Project PRIME (1924-1967); V. 2, From Scramjet to the National Aero-Space Plane (1964-1986); and V. 3, The Quest for the Orbital Jet, the National Aero-Space Plane Program (1983-1995).

The Hypersonic Revolution: From Max Valier to Project PRIME, 1924-1967

NASA Thesaurus Alphabetical Update

Subject Terms for Indexing Scientific and Technical Information

Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 2000: National Aeronautics and Space Administration

Fiscal Year 1997 NASA Authorization

Hearing Before the Subcommittee on Space and Aeronautics of the Committee on Science, U.S. House of Representatives, One Hundred Fourth Congress, Second Session, April 17, 1996

NASA's Integrated Space Transportation Plan and Orbital Space Plan [i.e. Plane] Program

Hearing Before the Subcommittee on Space and Aeronautics, Committee on Science, House of Representatives, One Hundred Eighth Congress, First Session, May 8, 2003

NASA Historical Data Book, V. 7

NASA Launch Systems, Space Transportation/Human Spaceflight, and Space Science

Government Printing Office This volume of the NASA Historical Data Book is the seventh in the series that describes NASA’s programs and projects. Covering the years 1989 through 1998, it includes the areas of launch systems, human spaceflight, and space science, continuing the volumes that addressed these topics during NASA’s previous decades. Each chapter presents information, much of it statistical, addressing funding, management, and details of programs and missions.

31st AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit

July 10-12, 1995

NASA Historical Data Book

Promise Denied

NASA's X-34 and the Quest for Cheap Reusable Access to Space

Between 1992 and 1996, the American aerospace community vigorously explored the development of a post-Space Shuttle reusable space transportation system for the United States. This activity included studies by the National Aeronautics and Space Administration (NASA), scientific foundations, and the aerospace industry. Likewise, both the executive branch of the government, through the issuance of a White House Policy Space Transportation Directive, and the legislative branch, though the holding of congressional hearings and budget allocations to NASA and the Department of Defense, were deeply involved in the decision-making process. The new policy direction was aimed toward reestablishing the Unites States' competitiveness in the space launch vehicle development and launch area and in transferring much of this activity to the U.S. aerospace industry. These developments served as the prelude to NASA's single-stage-to-orbit (SSTO), reusable launch vehicle (RLV) program that included the development of three technology test bed vehicles. The first of these vehicles was the DC-XA Clipper Graham, which actually was an upgrade to the original DC-X (Delta-Clipper Experimental) developed by McDonnell Douglas for the Department of Defense and subsequently transferred to NASA at the start of the Agency's single-stage-to-orbit program. The DC-XA Clipper Graham was followed by the X-33, which was intended to serve as a test bed vehicle for the subsequent development of a full-size reusable single-stage-to-orbit vehicle, and the X-34, which was intended as a technology test bed vehicle to demonstrate low-cost reusability and to conduct flight experiments. These were all promising concepts, and prospects for developing a cheap, robust, reusable space lift system to supplant the already aging Space Shuttle seemed assured. But within a decade, such hopes had been dashed-all the more frustrating to program proponents and participants, who had contributed some remarkably creative engineering to support the bold conceptual visions underpinning each of these programs. This book examines arguably the most elegant and promising of all of these, the NASA-Orbital Sciences X-34 Technology Testbed Demonstrator program, one ranking high on any list of the best research aircraft never flown

Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 1998

Hearings Before a Subcommittee of the Committee on Appropriations, House of Representatives, One Hundred Fifth Congress, First Session

Scientific and Technical Aerospace Reports

40th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 11-14, 2004, Fort Lauderdale, FL.: 04-3550 - 04-3599

Materials Selection for Spacecraft and Launch Vehicle Applications

Entering Space

Creating a Spacefaring Civilization

TarcherPerigee The author of The Case for Mars provides an insider's look at the future of space exploration and travel, examining the true potential for human expeditions into outer space, the prospects for colonization of the outer planets of the solar system, and their implications for the future of humankind. Reprint.

Enhancing U.S. Competitiveness

NASA Hypersonics Research and Wind Tunnel Programs : Hearing Before the Subcommittee on Technology, Environment, and Aviation of the Committee on Science, Space, and Technology, U.S. House of Representatives, One Hundred Third Congress, Second Session, March 15, 1994

The Engineering Handbook

CRC Press First published in 1995, The Engineering Handbook quickly became the definitive engineering reference. Although it remains a bestseller, the many advances realized in traditional engineering fields along with the emergence and rapid growth of fields such as biomedical engineering, computer engineering, and nanotechnology mean that the time has come to bring this standard-setting reference up to date. New in the Second Edition 19 completely new chapters addressing important topics in bioinstrumentation, control systems, nanotechnology, image and signal processing, electronics, environmental systems, structural systems 131 chapters fully revised and updated Expanded lists of engineering associations and societies The Engineering Handbook, Second Edition is designed to enlighten experts in areas outside their own specialties, to refresh the knowledge of mature practitioners, and to educate engineering novices. Whether you work in industry, government, or academia, this is simply the best, most useful engineering reference you can have in your personal, office, or institutional library.

A Collection of Technical Papers

AIAA/SOLE 1st Space Logistics Symposium, March 24-26, 1987 Huntsville, Alabama

39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 20-23, 2003, Huntsville, Alabama: 03-4800 - 03-4849

41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit 10-13 July 2005, Tucson, Arizona: 05-4350 - 05-4399

Space Manufacturing

NASA Technical Paper

Atmospheric Rendezvous Feasibility Study